

AMENDMENTS TO THE CLAIMS:

The listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF THE CLAIMS

1. (Previously presented) A substantially constant intensity light source, comprising:
functional circuitry, said functional circuitry comprising a switching power supply;
at least one signal, said signal a matrix of LEDs connected in series and parallel and
configured for redundancy; and
a monitoring circuit, said monitoring circuit comprises a current sense circuit;
wherein said current sense circuit includes an amplifier and at least one resistor in
series with the amplifier and a power converter circuit, senses a current of a flyback diode,
recovers a dc component of a waveform via a low pass filter, and provides feedback
control of the at least one signal.
2. (Cancelled)
3. (Previously presented) The light source of claim 1, wherein the power converter
circuit includes a current sense transformer.
4. (Previously presented) The light source of claim 1, wherein the current sense circuit
further comprises a pole that is independent of pole $C7/R_{load}$ variations.
5. (Previously presented) The light source of claim 4, wherein voltage ripple across a
first capacitor in the amplifier is independent of a second capacitor in the power converter
circuit.
6. (Previously presented) The light source of claim 5, wherein the second capacitor is
less than 500 μF .
7. (Previously presented) The light source of claim 1, wherein the LEDs are selected
from a group consisting of red LEDs, green LEDs or yellow LEDs.

8. (Previously presented) The light source of claim 1, further comprising a first signal comprising a matrix of red LEDs connected in series and parallel and configured for redundancy, a second signal comprising a matrix of yellow LEDs connected in series and parallel and configured for redundancy, and a third signal comprising a matrix of green LEDs connected in series and parallel and configured for redundancy.
9. (Previously presented) The light source of claim 1, wherein the amplifier increases an output current to compensate for light reduction of LEDs at higher temperatures.
10. (Previously presented) The light source of claim 1, wherein the amplifier comprises a thermistor and at least one resistor having a resistivity that decreases above 25°C.
11. (Previously presented) The light source of claim 1, wherein an amplifier gain is reduced and a current across a resistor R_s is increased.
12. (Previously presented) The light source of claim 7, wherein the LEDs are yellow and the amplifier is connected in parallel with a first, a second, a third, a fourth, and a fifth resistor, and the first resistor is connected in parallel with the second, the third, the fourth and the fifth resistors, the second, the fourth and the fifth resistors are connected in series, the third resistor is connected in parallel with the second resistor and a capacitor and a resistor R_s are connected in series with the amplifier.
13. (Previously presented) The light source of claim 7, wherein the LEDs are red and the amplifier is connected in parallel with a first, a second and a third resistor and the first resistor is connected in parallel with the third resistor and in series with the second resistor and the second capacitor and a resistor R_s are connected in series with the amplifier.

14. (Previously presented) The light source of claim 7, wherein the LEDs are green and the amplifier is connected in parallel with a first, a second, a third, a fourth and a fifth resistor, the first resistor is connected in series with the second and the fourth resistor and in parallel with the third and the fifth resistor and the second capacitor and a resistor R_s are connected in series with the amplifier.

15. (Cancelled)

16. (Cancelled)

17. (Cancelled)

18. (Cancelled)

19. (Cancelled)

20. (Cancelled)

21. (Cancelled)